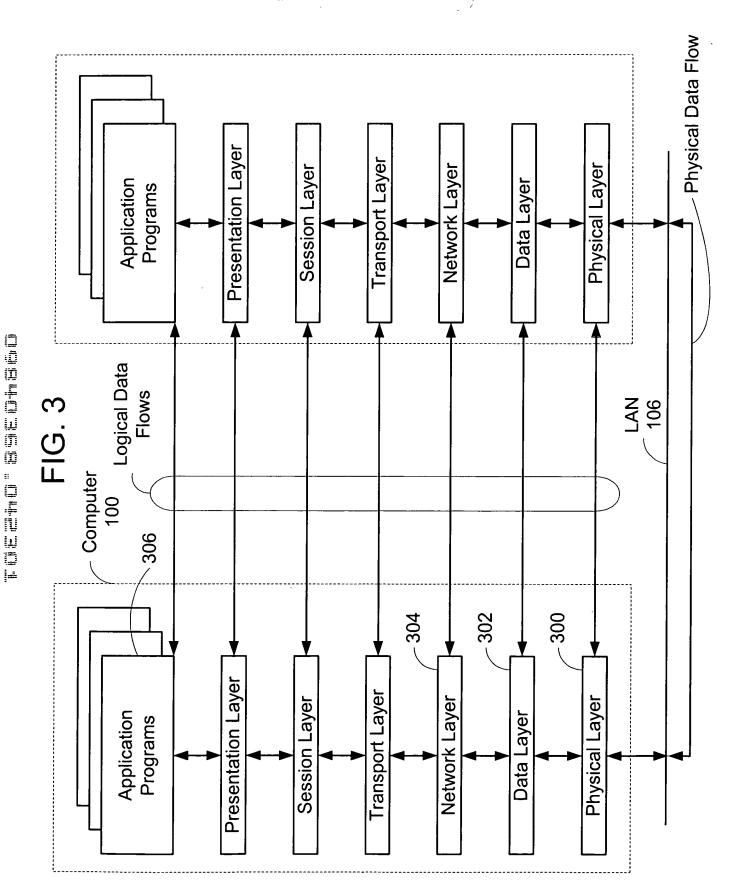
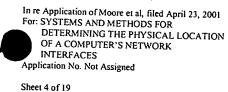
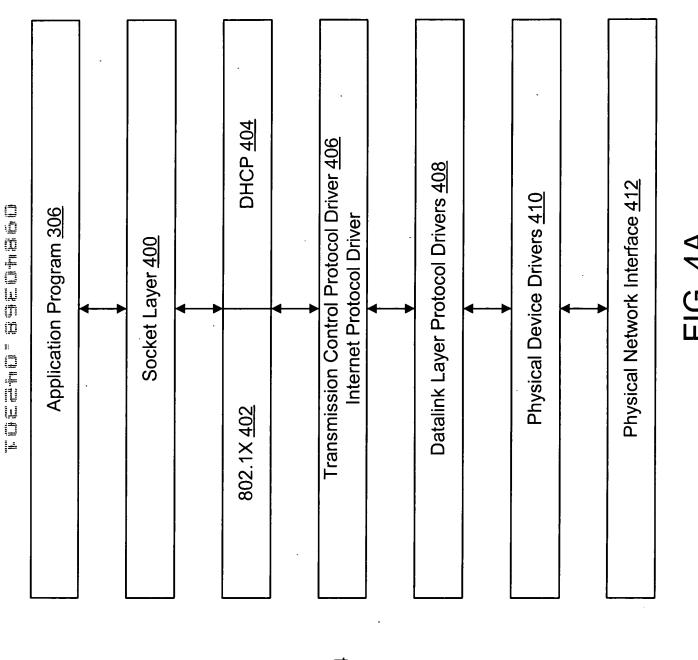


FIG. 2

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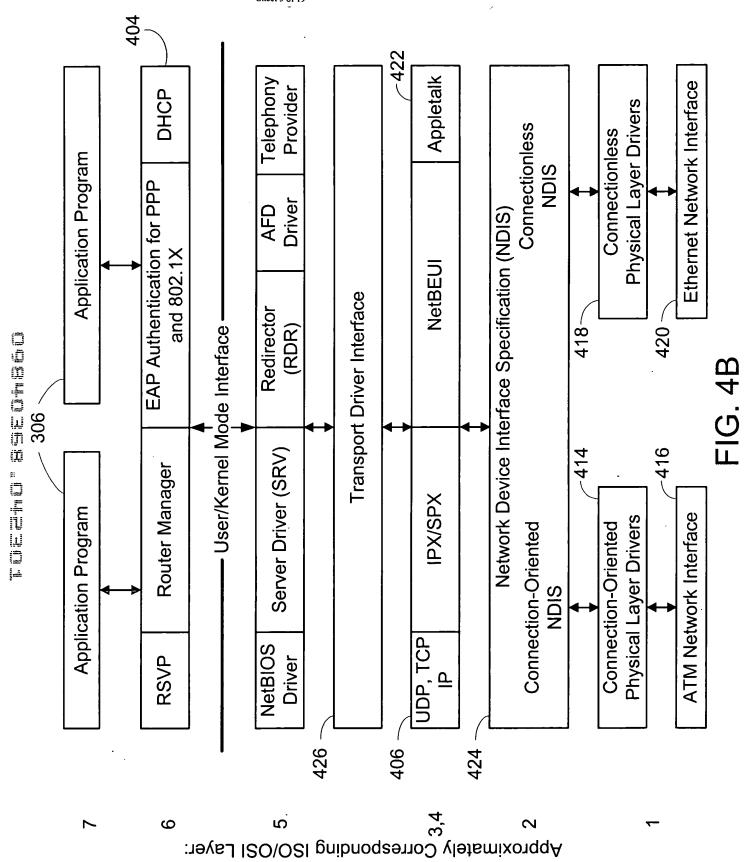
9

S

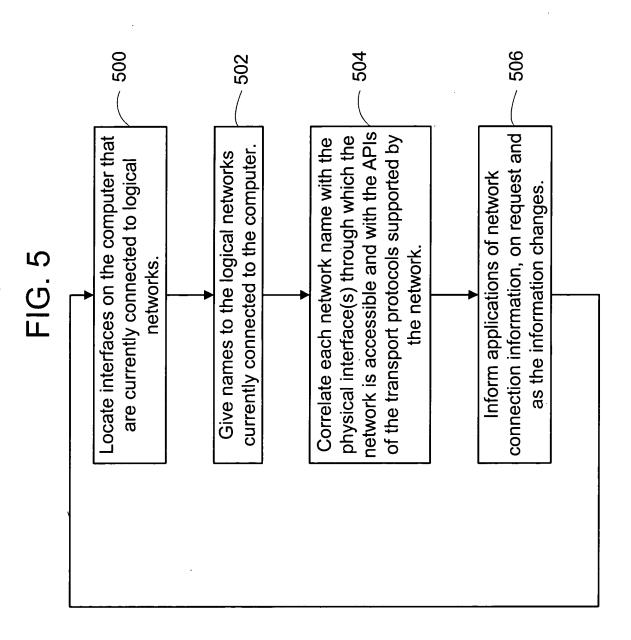
Approximately Corresponding ISO/OSI Layer:

2

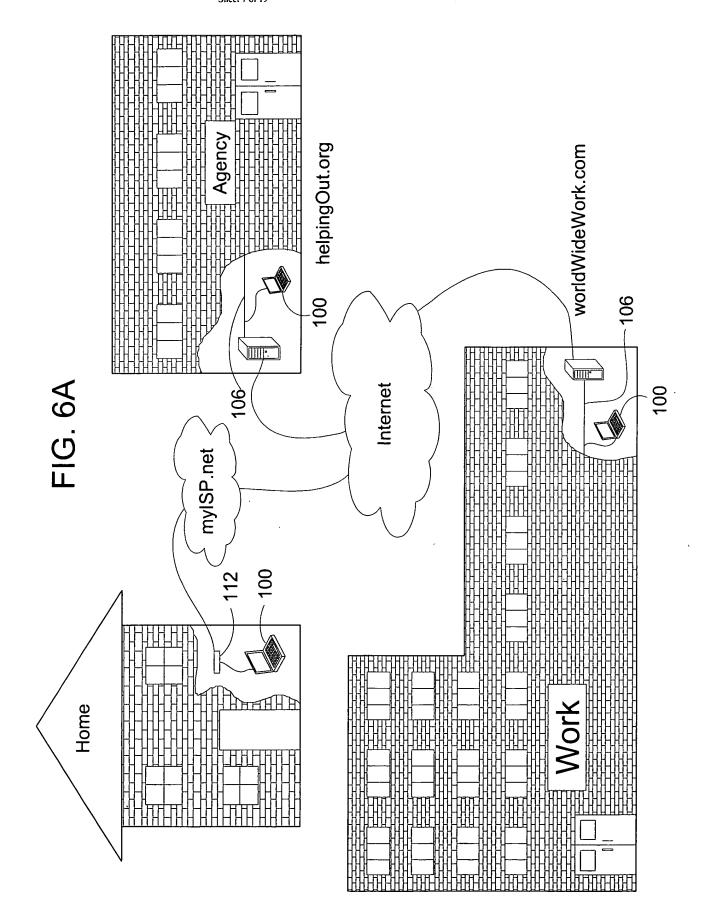




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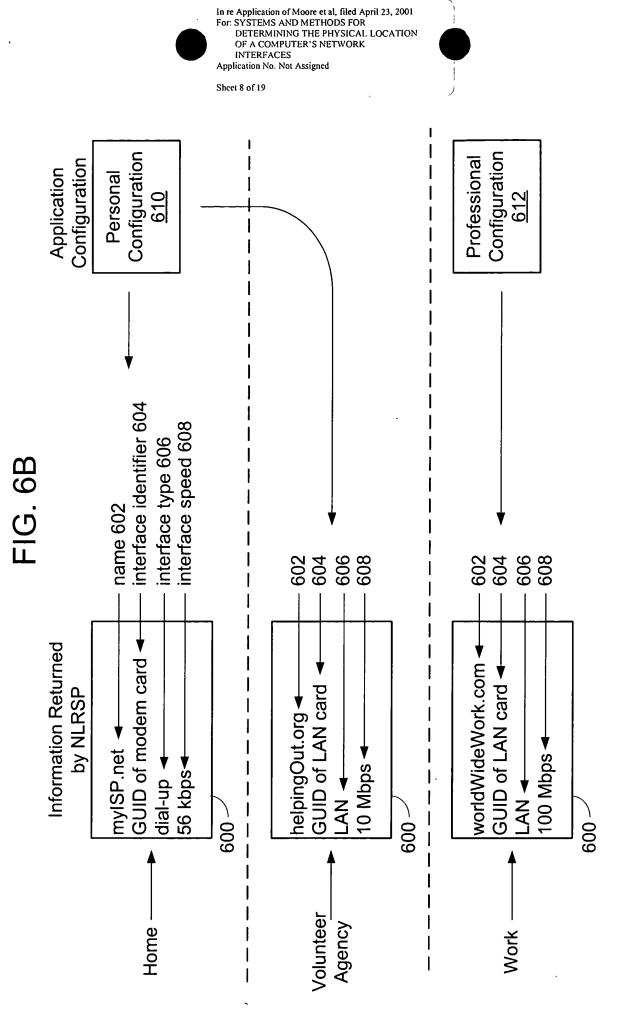
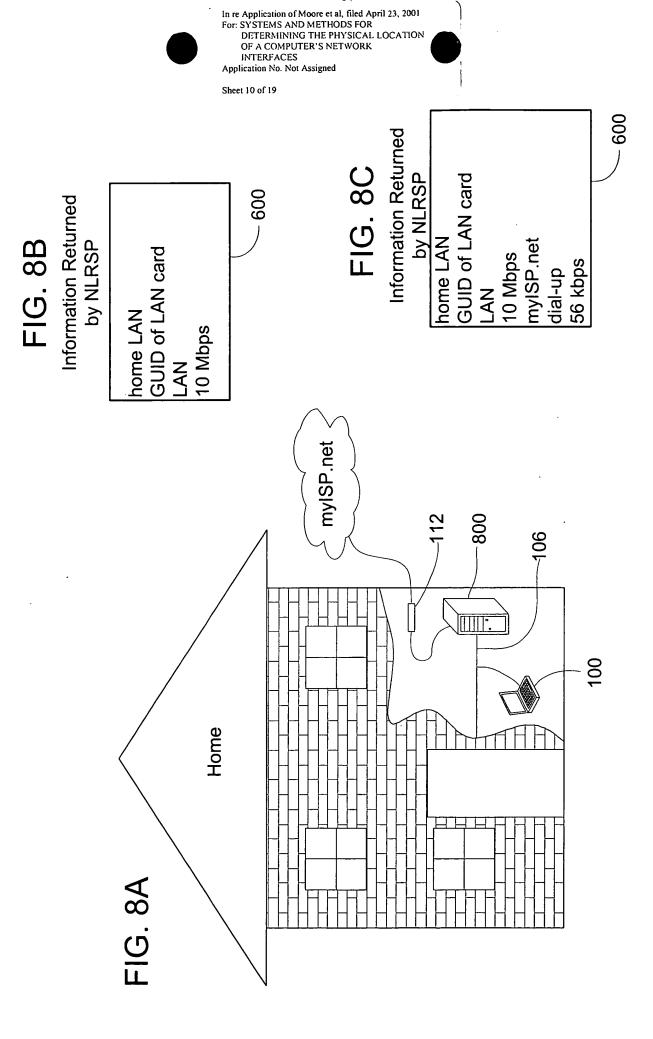


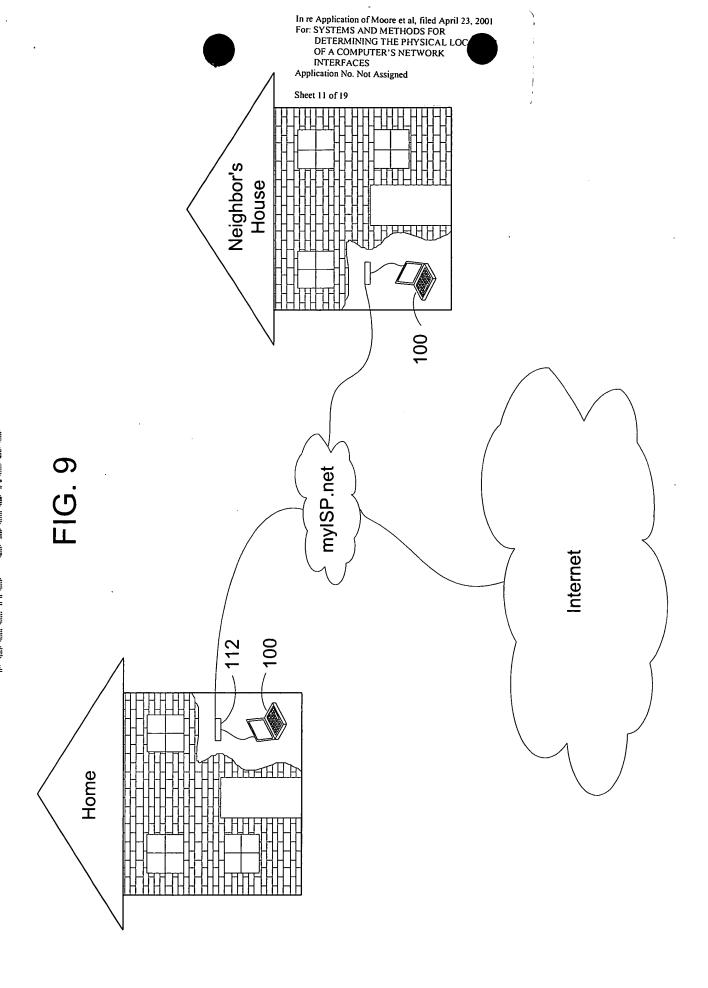
FIG. 7A

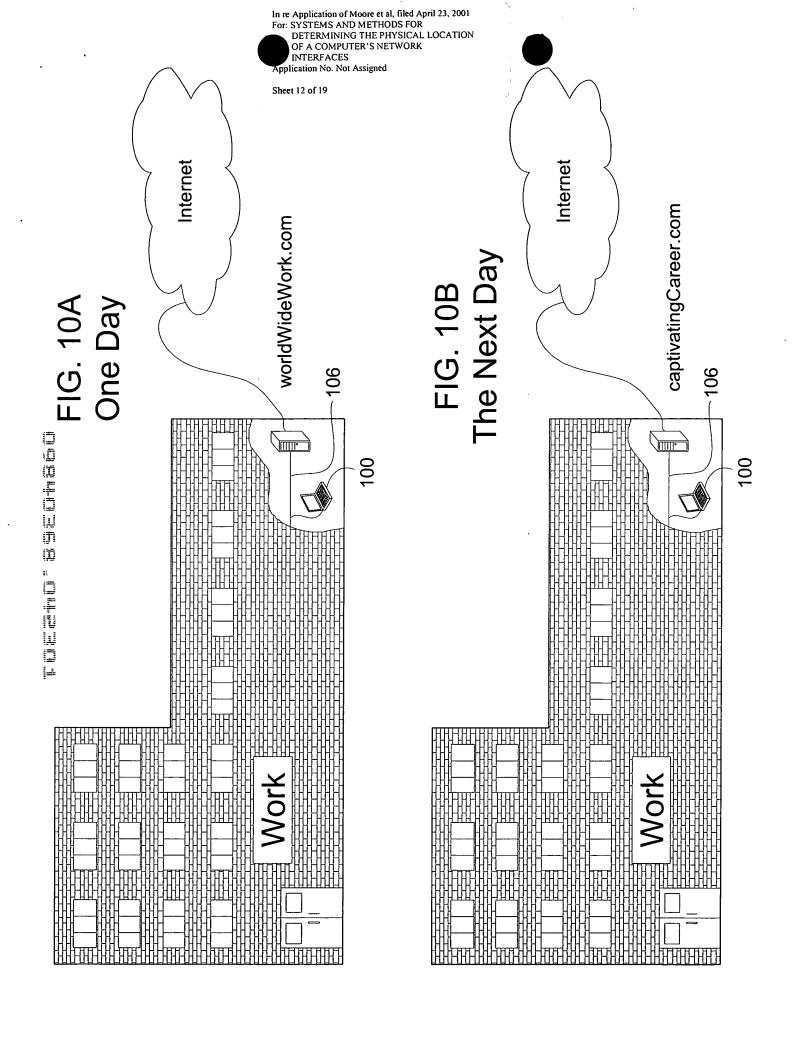
Home

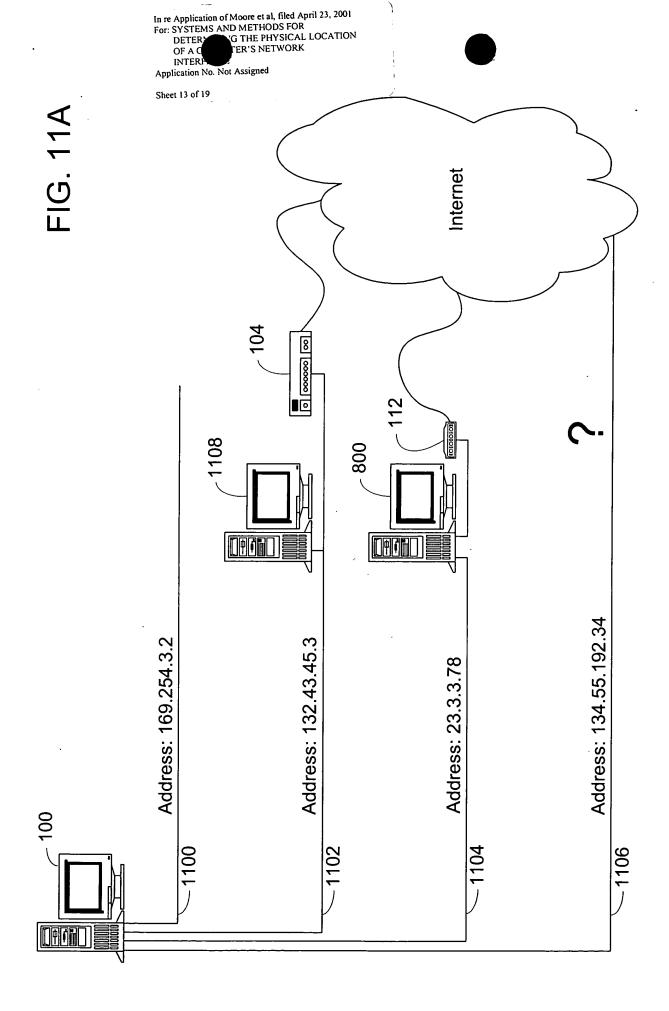
In re Application of Moore et al, filed April 23, 2001 For: SYSTEMS AND METHODS FOR ETERMINING THE PHYSICAL LOCATION A COMPUTER'S NETWORK TERFACES Application No. Not Assigned Sheet 9 of 19 GUID of modem card PPP worldWideWork.com 56 kbps FIG. 7B interface identifier 604 interface speed 608 interface type 606 name 602 myISP.net Information Returned 100 GUID of modem card by NLRSP mylSP.net ▲ dial-up ► 56 kbps⊸

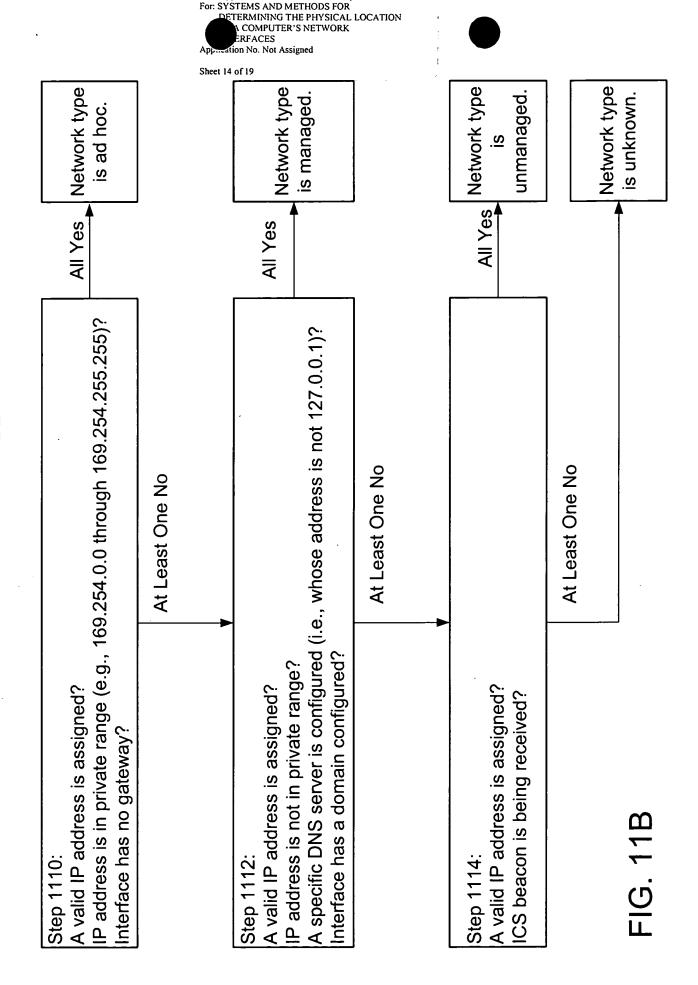
900

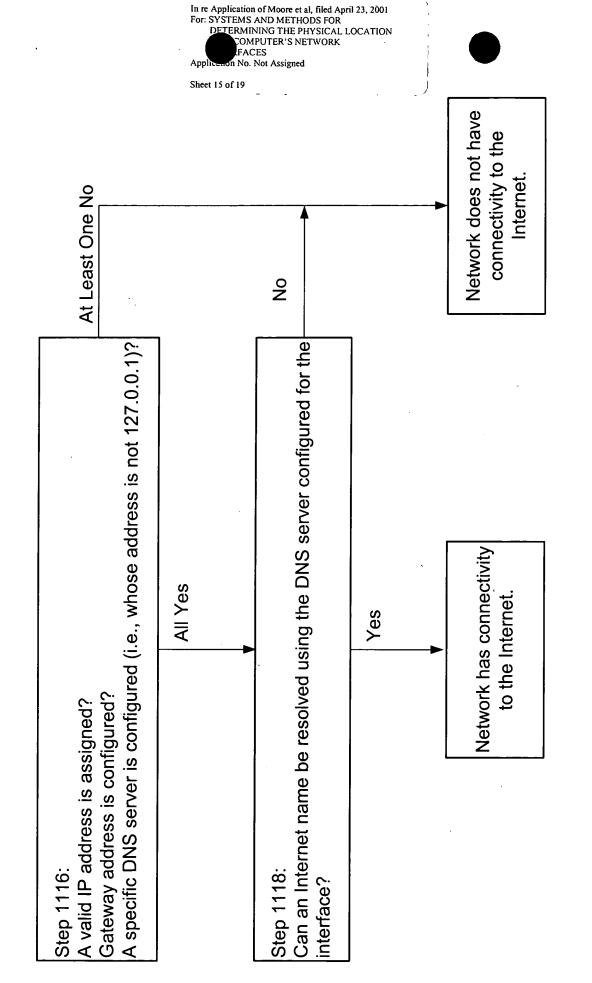












=1G. 11C

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Network	Network Connectivity Type	Internet Connectivity Available?
1100	Ad Hoc	ON
1102	Managed	Yes
1104	Unmanaged	Yes
1106	Unknown	Yes

FIG. 11D

DETERMINING THE PHYSICAL LOCA OF A COMPUTER'S NETWORK INTERFACES Application No. Not Assigned Sheet 17 of 19 (Minoooo work latitude and longitude **GUID** of modem card worldWideWork.com Work DNS via RFC 1876 1200 +/- 0.5 mile 56 kbps ppp Figure 12B Figure 12A interface identifier 604 physical location 1202 location method 1204 110 interface speed 608 interface type 606 error range 1206 name 602 myISP.net home latitude and longitude Information Returned user-entered ZIP code **GUID** of modem card by NLRSP Home myISP.net +/- 5 miles dial-up 56 kbps

In re Application of Moore et al, filed April 23, 2001 For: SYSTEMS AND METHODS FOR In re Application of Moore et al, filed April 23, 2001 For: SYSTEMS AND METHODS FOR

Create a list of live network interfaces.

CATION

For each live network interface:

Refer to a table that lists the physical location methods applicable to this type of network interface.

For each applicable method:

Run the method and collect whatever information it generates.

Convert the collected information to a standard format.

Store the collected information, along with an indication of the method used to collect this information, in a record associated with this network interface.

}

## Figure 13B

When asked for physical location information about a network interface:

Report the information previously collected on this interface. If information was collected from multiple methods, sort the results in order of increasing error range, if known.

Record what information was reported to whom.

## Figure 13C

When an application specifies how information should be reported to it:

Record the information fields in which the application is interested.

Record the threshold value specified for each information field.

Figure 13D

Sheet 19 of 19

When an event occurs on a network interface:

If the network event could change or supplement stored information:

Discard previously collected physical location information.

Refer to a table that lists the physical location methods applicable to this type of network interface.

For each applicable method:

Run the method and collect whatever information it generates.

Convert the collected information to a standard format.

Store the collected information, along with an indication of the method used to collect this information, in a record associated with this network interface.

Check the records of what information has been reported to whom.

If reported information has changed or was supplemented, and if the application is interested in being informed of changes in the reported information, and if the change is of a magnitude greater than the threshold set by the application, then:

Report the changed or supplemented information to the application.

Record what information was reported to whom.

}